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STEVENS and McCOY, INC.
CONSULTING ENVIRONMENTAL ENGINEERS
345 North Wyomissing Boulevard
P. O. Box 256
Wyomissing, Pennsylvania 19610
215-372-8437

June 24, 1970

ORIGINAL

Mr. Walter M. Leis
Sanitarian
State Health Center
439 East King Street
Lancaster, Pennsylvania 17604

Re: Sanitary Landfill
Ernest Barkman

Dear Mr. Leis:

I was very disappointed not to receive more concrete information from you on the evaluation by your Department of the above captioned site, requested by my letters of January 7 and April 15, 1970. As requested in your letter of April 24, 1970, transmitted enclosed are triplicate copies of PHASE I, PARTS I, II and III. A ground water monitoring system has not been installed therefore this portion of PHASE III has not been included.

As you are aware, we have only made a preliminary evaluation of this site, including test pits. No drilling has been done to determine detailed geological conditions.

Would you be so kind as to advise us as to what your Department has done on this case and what the order of review will be. I have had several calls from Mr. Barkman and he is most anxious to proceed with this landfill.

Please call if there are any questions on the enclosed.

Very truly yours,

Lewis J. McCoy

LEWIS J. McCOY, P.E.

LJMcC/bgl

Encl.

cc: Mr. Ernest Barkman

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ORIG

Date Prepared
June, 1970
8024-00

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF HEALTH
HOUSING AND ENVIRONMENTAL CONTROL
Solid Waste Disposal and/or Processing
Site Application Module

Dept. Use Only
Date
Official

repared by Stevens and McCoy, Inc.
P.O. Box 256
ddress Wyomissing, Pennsylvania 19610

PHASE I
PART I

LAND DISPOSAL FACILITY

A. Site Identification:

1. Name of Facility
   Barkman Sanitary Landfill

2. Address of Site
   R. D. #1 - LR 36054
   Honeybrook, Pennsylvania

3. Site Acquisition (check correct blank)
   a. Presently Owned X
   b. Will Purchase _____
   c. Will Lease-No. Years _____
   d. Will Rent _____

4. Owner of Record
   Name Ernest and Grace Barkman
   Address R. D. #1
   Honeybrook, Pennsylvania 19344

B. Is this an existing Facility _____ or a proposed Facility? X

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Date Prepared June, 1970

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GOVERNMENTAL APPROVAL

		YES	NO
A.	Site Approval from the County and Municipality: (check appropriate answer)		
	1. The proposed site has been approved by County in which the site is located if the site will be in a mine.	____	X
	2. The proposed site has been approved by the municipality in which it will be located.	____	X

B. Are there any certificates, permits, licenses or operation requirement required by the following. (If yes, describe)

1. Municipality No

2. Planning Commission No

3. County No

4. State Department of Mines and Mineral Industries None

5. Other None

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C. Zoning: (describe)

1. Classification of Site None

2. Enforcement Agency ---

3. Will zoning of site permit sanitary landfill? ---

4. Restrictions - if any ---

5. Adjacent Properties within ½ mile (check the appropriate spaces which indicates the use of adjacent properties surrounding the site)

	North	East	South	West	
a. Residential					
b. Commercial					
c. Lt. Industry					
d. Hvy. Industry					
e. Agriculture	X	X			
f. Mixed					
g. None			X	X	Woodland

Date Prepared June, 1970

Prepared by Stevens and McCoy, Inc.

PART III

SOIL AND GEOLOGICAL CHARACTERISTICS

A. Location

(A copy of the U.S.G.S. topographic map must be attached to each copy of application) Location Plan 8024-00 - A-001 Attached

(Use 7.5 minute quadrangle map if published)

1. Site Location

(Include the name of the U.S.G.S. topographic map, whether 7½ or 15 minute, year of publication, inches north and west of southeast corner and latitude and longitude)

a. 22 1/8 inches north 7 1/8 inches west of the southeast corner of the Honeybrook 7½ or 15 minute (circle one) quadrangle, 1955 (date)

b. 40 ° 07 ' 22 " N latitude and 75 ° 55 ' 14 " W longitude.

2. Topographic Setting: Wooded hillside

hillside, floodplain, strip mine, quarry, field, etc.

3. Plot on Topographic Map the following:

a. Location and Extent of Proposed Landfill — X

b. Location of: (place the following information on the U.S.G.S. Topographic Map if it is within the site or within ¼ mile of the outer perimeter of the site. Check each item with and (*) or appropriate symbol on the module that is being placed on the map).

(1)	Wells	* *
(2)	Springs	---
(3)	Swamps	---
(4)	Streams	---
(5)	Public Water Supplies	---
(6)	Other bodies of water	* Abandoned Quarr
(7)	Underground and surface mines	---
(8)	Mining spoil piles	---
(9)	Mine pool discharge points (even if discharge point is greater than ¼ mile from site	---
(10)	Elevation of mine pools	---
(11)	Gas and oil wells	---
(12)	Areal extent of mine pools	---

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B. Soils

1. List all soil series and phases within the site:

a. Edgemont very stony loam (C, D & E slope)
b. NOTE:
c. Two test pits on site indicate very little stoneyness and also
d. much greater depth than would be normal in this series.
e.
f.
g.
h.
i.
j.
k.

2. List all soil series and phases to be used as cover material:

a. Same as above
b.
c.
d.
e.
f.
g.
h.
i.
j.
k.

3. A copy of soil map or references to site location on published soil survey must be included. See Sheet 32, Soil Survey, Lancaster County, SCS Oct. 1959

C. Ground Water Geology

1. Glacial Geology South of the Jerseyan Drift

a. Type of deposit(s)
b. Texture of deposit(s)
c. Thickness of deposit(s)

2. Bedrock

a. Type(s) Antietain quartzite

b. Depth to 600 ±

c. Extent of weathering N.I.

d. Name and age of formation(s) Lower Cambrian

3. Structure

a. Basic description of structure N.I.

b. Strike and dip of beds N.I.

c. Direction of plunge N.I.

d. Fractures (strikes and dip, type, spacing) N.I.

	Strike and Dip	Type	Spacing (State inches or feet)	Indicate whether open or closed
(1) Joints				
(2) Cleavage				
(3) Faults				

e. Folds (minor folding) N.I.

(1) Type: Anticline _____ Syncline _____

(2) Strike and plunge of fold axis _____

4. Ground Water

a. Depth to ground water 80 feet

(1) How determined Drilled well on site, Nov. 1969

(2) Seasonal variation N.I.

(3) If depth to ground water cannot be determined, it is recommended that one boring or well near the highest elevation of the proposed site be drilled to a depth of 10 feet into the ground water or 10 feet into bedrock, whichever is deepest (maximum depth 150 feet).

(a) Locate the well or boring on the accompanying map X

(b) Provide a complete log (description) of the well Unconsolidated soil and rocks to 45'. No other information available.

(c) Indicate the method of drilling Rotary

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b. Direction(s) of ground water movement Due North
(If more than one direction of ground water flow, indicate those directions, too.

c. Discharge of ground water (must be indicated on the U.S.G.S. topographic map)

(1) Distance and direction to discharge point(s) North about 2,500 feet

(2) Name(s) of discharge point(s) Season Springs Tributary to Conestoga Creek
(Stream, spring, etc.)

(3) Area tributary to discharge point(s) 275 acres

d. How was information determined? Observation and topographic map

5. Surface Water

a. Flooding hazard frequency (years) 1000 + Years

b. Will there be a discharge of leachate to surface waters? ____Yes __X__No

c. Will leachate collection and treatment facilities be constructed? ____Yes X No

d. If yes, have you applied for a Sanitary Water Board permit for collection, treatment, and discharge of the leachate? ____Yes ____No

6. Subsurface Information - (Detailed information is needed on subsurface condtions for a proper analysis of the site. This information on soils, geology, and ground water may be determined from deep cut(s), boring(s) and well(s), backhoe pit(s), and natural outcrop(s) or artificial cut(s).)

a. Are there natural outcrops or artifical cuts in the vicinity of the site? (1.e. road cuts, railroad cuts, strip mines, quarries, etc.) X Yes ____No

(1) Depth of cut or thickness of outcrop No outcrops

(2) Location of cut or outcrop (show on topographic map) X

(3) Reason for opening cut Abandoned Quarry - 1000 feet N.W.

(4) Detailed description of cut or outcrop

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b. (Complete where insufficient information is available to complete 6a above.)

Have borings or cuts been made for site evaluation? Yes X No ____
(An adequate number of boring(s) or cut(s) should be made to a depth of 5 feet into the ground water, or to bedrock, or to 20 feet below the proposed or existing base of the landfill)

(1) Locate the cut(s) or boring(s) on the accompanying map Plat Plan

(2) Provide the complete logs (description) of the cut(s) or boring(s)

(3) Indicate the method of drilling Rotary

Two preliminary test pits on site indicate fine loam cover for the entire 12 feet depth of pits, with very few small stones.

Well drilled on site by C. S. Garber and Sons, Inc. in November, 1969. Cased to 47 feet, total depth 130 feet. Static water level 80' (approximately 730 M.S.C.).

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